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**MATERIAL SAFETY DATA SHEET**

1. IDENTIFICATON
Product name: Methyl cyclopentadiene dimmer (MCPD)
CAS NO: 26472-00-4
Code : M 0416

2. HAZARDS IDENTIFICATION
GHS classification
PHYSICAL HAZARDS
Flammable liquids: Category 3
HEALTH HAZARDS
Carcinogenicity: Category 2
ENVIRONMENTAL HAZARDS: Not classified
GHS label elements, including precautionary statements
Pictograms or hazard symbols
Signal word: Warning
Hazard statements: Flammable liquid and vapour
Suspected of causing cancer
Precautionary statements:
[Prevention]Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against ignition by the static discharge and the spark.
Wear protective gloves/eye protection/face protection.
[Response]IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed or concerned: Get medical advice/attention.
[Storage]Store in a well-ventilated place. Keep cool.

Store locked up.
[Disposal]Dispose of contents/container through a waste management company authorized by the local government.
Other hazards which do not result in classification: May cause polimerization.

3. COMPOSITION/INFORMATION ON INGREDIENTS
Substance/mixture: Substance
Components: Methylcyclopentadiene Dimer
Chemical Formula: C12H16
CAS NO: 26472-00-4
Percent: >95%

4. FIRST AID MEASURES
Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice/attention.
Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.
Ingestion: Get medical advice/attention. Rinse mouth.
Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, carbon dioxide.
Unsuitable extinguishing media: Water (It may scatter and spread fire.)
Specific hazards arising from the chemical:This substance may polimerize explosively when heated or involved in a fire.
Container may explode when heated. Combat fire from a sheltered position.
Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used.
Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.
Special protective equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions: Prevent product from entering drains.
Methods and materials for containment and cleaning up:
Absorb spilled material in dry sand or inert absorbent before recovering it into a covered container. In case of large amount of spillage, contain a spill by bunding.
Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Prevention of secondary hazards: Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

## 7. HANDLING AND STORAGE

Precautions for safe handling
Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment.
Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.
Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.
Advice on safe handling: Avoid all contact!
Conditions for safe storage, including any incompatibilities
Storage conditions:
Keep container tightly closed.
Store in a cool, dark and well-ventilated place.
Store locked up.
Store away from incompatible materials such as oxidizing agents.
Packaging material: Comply with laws.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment
Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection: Impervious gloves.
Eye protection: Safety goggles. A face-shield, if the situation requires.
Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):Liquid
Form: Clear
Colour: Colorless - Slightly pale yellow
Odour:No data available

pH:No data available
Melting point/freezing point:-51°C (Freezing point)
Boiling point/range:200°C
Flash point:27°C
Flammability or explosive limits:
Lower:1%
Upper:10%
Vapour pressure:1.9kPa/25°C
Vapour density:4.6
Relative density:0.94
Solubility(ies):
[Water]Insoluble
[Other solvents] No data available
Log Pow:5.7

10. STABILITY AND REACTIVITY
Chemical stability: Polymerization may occur under the influences of heat, light or on contact with polymelization initiators such as peroxides etc. Possibility of hazardous reactions: No special reactivity has been reported. Conditions to avoid: Heat, Spark, Open flame, Static discharge, Light
Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide, Carbon dioxide

11. TOXICOLOGICAL INFORMATION
Acute Toxicity:orl-rat LD50:10000 mg/kg
ihl-mam LC:>500 mg/m3
Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Germ cell mutagenicity:No data available
Carcinogenicity:
IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
RTECS Number: PC1075000

12. ECOLOGICAL INFORMATION
Ecotoxicity:

| | |
|---|---|
| Fish: | No data available |
| Crustacea: | No data available |
| Algae: | No data available |
| Persistence / degradability: | No data available |
| Bioaccumulative potential(BCF): | No data available |
| Mobility in soil | |
| Log Pow: | 5.7 |
| Soil adsorption (Koc): | No data available |

Henry's Law constant(PaM3/mol): 1.56 x 104

13. DISPOSAL CONSIDERATIONS
Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance

14. TRANSPORT INFORMATION
Hazards Class: 3: Flammable liquid.
UN-No: 3295
Proper shipping name: Methyl cyclopentadiene dimmer, liquid, n.o.s.
Packing group: III

15. REGULATORY INFORMATION
Safe management ordinance of dangerous chemical product (State Council announces on

January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed. The list of a dangerous chemical (2002)/CN-No.: 33518

16. OTHER INFORMATION

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.